

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  100747-1 WO	<b>FOR FURTHER ACTION</b> <small>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</small>	
International application No.  PCT/GB 03/ 03603	International filing date (day/month/year)  18/08/2003	(Earliest) Priority Date (day/month/year)  21/08/2002
Applicant  ASTRAZENECA AB		

This international Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

### 1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

**THIENO-PYRROLE COMPOUNDS AS ANTAGONISTS OF GONADOTROPIN RELEASING HORMONE**

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/03/03603

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D495/04 A61K31/40 A61P35/00 //(C07D495/04, 333:00, 209:00)

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00 53185 A (MERCK & CO INC ;WALSH THOMAS F (US); UJJAINWALLA FEROZE (US)) 14 September 2000 (2000-09-14) cited in the application claims 1,4	1-15
A	WO 99 41251 A (GOULET MARK T ;MERCK & CO INC (US); WALSH THOMAS F (US); FISHER MI) 19 August 1999 (1999-08-19) cited in the application claims 1,4	1-15
A	US 6 025 366 A (GOULET MARK T ET AL) 15 February 2000 (2000-02-15) claims 1,4	1-15

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*G\* document member of the same patent family

Date of the actual completion of the international search

14 November 2003

Date of mailing of the international search report

25/11/2003

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/03/03603

## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01 70227 A (GOULET MARK T ;DEVITA ROBERT J (US); MERCK & CO INC (US); PARIKH M) 27 September 2001 (2001-09-27) claims 1,6	1-15
A	US 6 340 686 B1 (CHOH NOBUO ET AL) 22 January 2002 (2002-01-22) claims 1,15	1-15
P, A	WO 02 092565 A (WARDLEWORTH JAMES MICHAEL ;ASTRAZENECA UK LTD (GB); DOSSETTER ALEX) 21 November 2002 (2002-11-21) cited in the application claims 1,11	1-15

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP03/03603

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0053185	A	14-09-2000	AU 3514200 A	28-09-2000
			CA 2367130 A1	14-09-2000
			EP 1171135 A1	16-01-2002
			JP 2002538208 A	12-11-2002
			WO 0053185 A1	14-09-2000
			US 6288078 B1	11-09-2001
WO 9941251	A	19-08-1999	AU 2597299 A	30-08-1999
			CA 2317451 A1	19-08-1999
			EP 1068195 A1	17-01-2001
			JP 2002503660 T	05-02-2002
			WO 9941251 A1	19-08-1999
			US 6159975 A	12-12-2000
US 6025366	A	15-02-2000	AU 3117899 A	25-10-1999
			CA 2325995 A1	14-10-1999
			EP 1067929 A1	17-01-2001
			JP 2002510628 T	09-04-2002
			WO 9951231 A1	14-10-1999
WO 0170227	A	27-09-2001	AU 4738101 A	03-10-2001
			WO 0170227 A1	27-09-2001
US 6340686	B1	22-01-2002	AU 764019 B2	07-08-2003
			AU 3326200 A	09-10-2000
			BR 0009297 A	18-12-2001
			CA 2368108 A1	28-09-2000
			CN 1349536 T	15-05-2002
			CZ 20013419 A3	13-02-2002
			EP 1163244 A1	19-12-2001
			HU 0200550 A2	29-06-2002
			WO 0056739 A1	28-09-2000
			JP 3240293 B2	17-12-2001
			JP 2001278884 A	10-10-2001
			JP 2001278885 A	10-10-2001
			NO 20014603 A	26-11-2001
			NZ 514737 A	31-10-2003
			PL 351202 A1	24-03-2003
			SK 13552001 A3	05-03-2002
			US 6297379 B1	02-10-2001
			ZA 200108165 A	04-10-2002
WO 02092565	A	21-11-2002	WO 02092565 A2	21-11-2002